

**To:** Moore, Kathi[Moore.Kathi@epa.gov]; Robberson, Bill[Robberson.Bill@epa.gov]  
**From:** Allen, HarryL  
**Sent:** Tue 8/11/2015 5:31:22 PM  
**Subject:** Fwd: Additional Gold King Mine statement/update 8/10

Source sample risk

Sent from my iPad

Begin forwarded message:

**From:** "Allen, HarryL" <Allen.HarryL@epa.gov>  
**Date:** August 11, 2015 at 7:21:40 AM PDT  
**To:** "Harris-Bishop, Rusty" <Harris-Bishop.Rusty@epa.gov>, "Manzanilla, Enrique" <Manzanilla.Enrique@epa.gov>, "Blumenfeld, Jared" <BLUMENFELD.JARED@EPA.GOV>, "Strauss, Alexis" <Strauss.Alexis@epa.gov>, "Kao, Jessica" <Kao.Jessica@epa.gov>, "Zito, Kelly" <ZITO.KELLY@EPA.GOV>, "Guria, Peter" <Guria.Peter@epa.gov>  
**Subject:** Fwd: Additional Gold King Mine statement/update 8/10

Risk message based on spill site data:

Low risk of human health effects from contact with or ingestion of river water (even considering a 30 day repeated exposure).

Low risk of adverse effects on livestock from water ingestion or contact.

pH is normal. Avoid orange colored water as a precaution. Always wash w soap and water after being in contact w river water.

Sent from my iPhone

Begin forwarded message:

**From:** "Cristiano, Gina" <Cristiano.Gina@epa.gov>  
**Date:** August 11, 2015 at 2:15:13 AM PDT  
**To:** Megan Crandall <mcrandal@blm.gov>, Donald Hoffheins <dhoffhei@blm.gov>, "larry.wolk@state.co.us" <larry.wolk@state.co.us>, "Urdiales, Aaron" <Urdiales.Aaron@epa.gov>, "Ackerman, Joyce" <Ackerman.Joyce@epa.gov>, "Allen, HarryL" <Allen.HarryL@epa.gov>, "Allison.Majure@state.nm.us" <Allison.Majure@state.nm.us>, "Bahrman, Sarah" <Bahrman.Sarah@epa.gov>, "Bohan, Suzanne" <bohan.suzanne@epa.gov>, "bsmartinez@fs.fed.us" <bsmartinez@fs.fed.us>, "Buhl, Rick" <Buhl.Rick@epa.gov>, Butch Knowlton-LaPlata Co EM <knowltonbk@co.laplata.co.us>, "Card, Joan" <Card.Joan@epa.gov>,

"Chavez, Luke" <Chavez.Luke@epa.gov>, "Copeland, Michael" <Copeland.Michael@epa.gov>, "Crossland, Ronnie" <Crossland.Ronnie@epa.gov>, "dariotti@utah.gov" <dariotti@utah.gov>, "david.kreutzer@state.co.us" <david.kreutzer@state.co.us>, "david.kurz@state.co.us" <david.kurz@state.co.us>, "Dhieux, Joyel" <Dhieux.Joyel@epa.gov>, "dietrich@utah.gov" <dietrich@utah.gov>, "director@sjcph.org" <director@sjcph.org>, "doug.jamison@state.co.us" <doug.jamison@state.co.us>, "dspangler@utah.gov" <dspangler@utah.gov>, "dwong@utah.gov" <dwong@utah.gov>, "egaddis@utah.gov" <egaddis@utah.gov>, "Eoc, Epahq" <Eoc.Epahq@epa.gov>, "Faulk, Libby" <Faulk.Libby@epa.gov>, "Foster, Althea" <Foster.Althea@epa.gov>, "Garcia, David" <Garcia.David@epa.gov>, "gary.baughman@state.co.us" <gary.baughman@state.co.us>, "Gleason, Michael" <Gleason.Michael@epa.gov>, "greg.nauble@state.co.us" <greg.nauble@state.co.us>, "Griswold, Hays" <Griswold.Hays@epa.gov>, "Hayes, Mark" <hayes.mark@epa.gov>, "Hestmark, Martin" <Hestmark.Martin@epa.gov>, "jason.king@state.co.us" <jason.king@state.co.us>, Joshua Allan - BIA <joshua.allan@bia.gov>, "Kahn, Lisa" <Kahn.Lisa@epa.gov>, "karin.mcgowan@state.co.us" <karin.mcgowan@state.co.us>, "KBousfield@utah.gov" <KBousfield@utah.gov>, "Kortuem, Patrice" <Kortuem.Patrice@epa.gov>, "kshelley@utah.gov" <kshelley@utah.gov>, "Land, Kelcey" <Land.Kelcey@epa.gov>, "Laura.Rendon@state.nm.us" <Laura.Rendon@state.nm.us>, Liane Jollon - San Juan Basin HD <ljollon@sjbhd.org>, "llamb@utah.gov" <llamb@utah.gov>, "Lloyd, Lisa" <Lloyd.Lisa@epa.gov>, "Logan, Paul" <Logan.Paul@epa.gov>, "Madigan, Andrea" <Madigan.Andrea@epa.gov>, "martha.rudolph@state.co.us" <martha.rudolph@state.co.us>, "McComb, Martin" <McComb.Martin@epa.gov>, "McGrath, Shaun" <McGrath.Shaun@epa.gov>, "meghan.trubee@state.co.us" <meghan.trubee@state.co.us>, "mjblanchard@fs.fed.us" <mjblanchard@fs.fed.us>, "Mohr, Mindy" <Mohr.Mindy@epa.gov>, "monica.sheets@state.co.us" <monica.sheets@state.co.us>, "Myers, Craig" <Myers.Craig@epa.gov>, "Mylott, Richard" <Mylott.Richard@epa.gov>, "Nattis, Randy" <Nattis.Randy@epa.gov>, "O'Connor, Darcy" <oconnor.darcy@epa.gov>, "Ostrander, David" <Ostrander.David@epa.gov>, "patrick.j.pfaltzgraff@state.co.us" <patrick.j.pfaltzgraff@state.co.us>, "Patrick.Longmire@state.nm.us" <Patrick.Longmire@state.nm.us>, R8 Documentation Unit Leader <R08\_Documentation\_Unit\_Leader@epa.gov>, "Restivo, Angela" <Restivo.Angela@epa.gov>, "Russo, Rebecca" <Russo.Rebecca@epa.gov>, "Saldenha, Jasmine" <Saldenha.Jasmine@epa.gov>, "Sandoval, Joni" <Sandoval.Joni@epa.gov>, Sid Caesar - BIA <sid.caesar@bia.gov>, "Sierra, Eddie" <Sierra.Eddie@epa.gov>, "Sisk, Richard" <Sisk.Richard@epa.gov>, "Smith, Paula" <Smith.Paula@epa.gov>, "Stavnes, Sandra" <Stavnes.Sandra@epa.gov>, "Stevenson, Peter" <Stevenson.Peter@epa.gov>, "Thomas, Deb" <thomas.debrah@epa.gov>, "tojohns@southernute-nsn.gov" <tojohns@southernute-nsn.gov>, "tyson.ingles@state.co.us" <tyson.ingles@state.co.us>, "Videtich, Callie" <Videtich.Callie@epa.gov>, "Ward, W. Robert" <Ward.Robert@epa.gov>, "warren.smith@state.co.us" <warren.smith@state.co.us>, "Way, Steven" <way.steven@epa.gov>, "wbaker@utah.gov" <wbaker@utah.gov>, "Webster, Susan"

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"Urdiales, Aaron" <[Urdiales.Aaron@epa.gov](mailto:Urdiales.Aaron@epa.gov)>  
**Cc:** "Freed, Chris" <[Freed.Chris@epa.gov](mailto:Freed.Chris@epa.gov)>  
**Subject: Additional Gold King Mine statement/update 8/10**

All,

The following information is also being released:

EPA has compared the surface water quality data collected on August 5 and 6 to screening levels for human health developed by EPA. The screening levels for human incidental ingestion during recreation are based on an exposure duration totaling 60 days, 8 hours/day. The State of Colorado has developed screening levels for agricultural exposure. The screening levels for agricultural exposure are based on an exposure duration totaling 30 days.

Based on the data we have seen so far, EPA and ATSDR do not anticipate adverse health effects from exposure to the metals detected in the river water samples from skin contact or incidental (unintentional) ingestion. Similarly, the risk of adverse effects to livestock that may have been exposed to metals detected in river water samples from ingestion or skin contact is low. It is advisable to avoid areas with orange discoloration in the river water.

Although the pH levels between Cement Creek and Durango have returned to baseline levels washing with soap and water after contact with the river water is a sound public health practice to minimize exposure to the metals and bacteria that may be present in any untreated river water.

**From:** Cristiano, Gina

**Sent:** Monday, August 10, 2015 7:43 PM

**To:** Megan Crandall; Donald Hoffheins; 'larry.wolk@state.co.us'; Urdiales, Aaron; Ackerman, Joyce; Allen, HarryL; 'Allison.Majure@state.nm.us'; Bahrman, Sarah; Bohan, Suzanne; 'bsmartinez@fs.fed.us'; Buhl, Rick; Butch Knowlton-LaPlata Co EM; Card, Joan; Chavez, Luke; Copeland, Michael; Cristiano, Gina; Crossland, Ronnie; 'dariotti@utah.gov'; 'david.kreutzer@state.co.us'; 'david.kurz@state.co.us'; Dhieux, Joyel; 'dietrich@utah.gov'; 'director@sjcph.org'; 'doug.jamison@state.co.us'; 'dspangler@utah.gov'; 'dwong@utah.gov'; 'egaddis@utah.gov'; Eoc, Epahq; Faulk, Libby; Foster, Althea; Garcia, David; 'gary.baughman@state.co.us'; Gleason, Michael; 'greg.nauble@state.co.us'; Griswold, Hays; Hayes, Mark; Hestmark, Martin; 'jason.king@state.co.us'; Joshua Allan - BIA; Kahn, Lisa; 'karin.mcgowan@state.co.us'; 'KBousfield@utah.gov'; Kortuem, Patrice; 'kshelley@utah.gov'; Land, Kelcey; 'Laura.Rendon@state.nm.us'; Liane Jollon - San Juan Basin HD; 'llamb@utah.gov'; Lloyd, Lisa; Logan, Paul; Madigan, Andrea; 'martha.rudolph@state.co.us'; McComb, Martin; McGrath, Shaun; 'meghan.trubee@state.co.us'; 'mjblanchard@fs.fed.us'; Mohr, Mindy; 'monica.sheets@state.co.us'; Myers, Craig; Mylott, Richard; Nattis, Randy; O'Connor, Darcy; Ostrander, David; 'patrick.j.pfaltzgraff@state.co.us'; 'Patrick.Longmire@state.nm.us'; R8 Documentation Unit Leader; Restivo, Angela; Russo, Rebecca; Saldenha, Jasmine; Sandoval, Joni; Sid Caesar - BIA; Sierra, Eddie; Sisk, Richard; Smith, Paula; Stavnes, Sandra; Stevenson, Peter; Thomas, Deb; 'tojohns@southernute-nsn.gov'; 'tyson.ingles@state.co.us'; Videtich, Callie; Ward, W. Robert; 'warren.smith@state.co.us'; Way, Steven; 'wbaker@utah.gov'; Webster, Susan; Werner, Phillip

**Cc:** Freed, Chris

**Subject:** Gold King Mine statement/update 8/10

The Gold King Mine Release statement/update for 8/10 is attached.

Thank you, Gina

Gina Cristiano

Emergency Response & Planning Coordinator

EPA Region 8

303-312-6688

